1. In the below elements which of them are values or an expression? eg:- values can be integer or string and expressions will be mathematical operators.

\* -- expression

'hello'--values

-87.8--values

- --expression

/ --expression

* --expression

6 – value

2. What is the difference between string and variable?

Variable is the one which is used to store values(including strings) and string is a datatype which isa collection of characters put in a single quote or double quotes

3. Describe three different data types.

Strings-collection of characters put in a single quote or double quotes

E.g. “ Hello World”

Integer-it contains both positive and negative whole numbers.

E.g. 1,2,3

Float-it contains real numbers with floating point presentation

E.g. 1.0,2.6,2.9

4. What is an expression made up of? What do all expressions do?

An expression is a combination of values and operators. They will evaluate and give the solution.

5. This assignment statements, like spam = 10. What is the difference between an expression and a statement?

An expression evaluates to a single value and a statement does not.

6. After running the following code, what does the variable bacon contain?

bacon = 22

bacon + 1

22

7. What should the values of the following two terms be?

'spam' + 'spamspam'

'spam' \* 3

‘spamspamspam’

8. Why is eggs a valid variable name while 100 is invalid?

Variables name cannot start with numbers

9. What three functions can be used to get the integer, floating-point number, or string version of a value?

Int()

Float()

Str()

10. Why does this expression cause an error? How can you fix it?

'I have eaten ' + 99 + ' burritos.'

String cannot concatenate with the integer so it shows error it can be fixed by keeping 99 in between the single or double quotes

'I have eaten ' + ‘99 ‘+ ' burritos.'